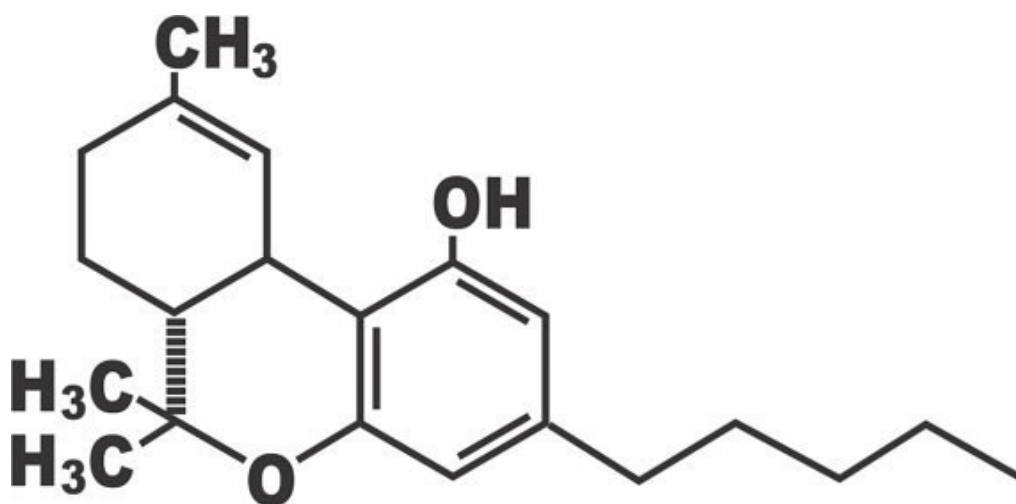


Indiana State Department of Toxicology 2013 Annual Report



Pictured on the cover is an illustration of the chemical structure of THC and blood samples for analysis. THC analysis has moved from being outsourced to solely an in-house analysis during the last six months of 2013.

Overview

The Indiana State Department of Toxicology (ISDT) provides science-based support to the state's criminal justice system, including impaired and dangerous driving enforcement programs, by conducting analyses for alcohol and drugs in blood samples submitted by law enforcement agencies, furnishing expert testimony, training and certifying operators to administer breath tests for alcohol, and inspecting, maintaining, and certifying breath testing equipment.

The Department's purpose is to provide accurate and timely toxicology analytical services in an ethical and forensically sound manner and an accurate and reliable breath-testing program for the State of Indiana.

We hold that quality results come through professional, ethical, and unbiased analysis of all evidentiary samples entrusted to the laboratory for testing.

The Agency's strategy is to establish a professional work environment that encourages excellence; hire highly qualified individuals that share the values of the Department; provide the appropriate resources to ensure each employee accomplishes the goals and objectives of the Department; develop a training program ensuring each employee is always learning; clearly communicate expectations, goals, and objectives to each member of ISDT; and to provide the necessary technical and administrative leadership.

Budget

The state appropriations for the Department of Toxicology from 2010 through 2014 are listed below in Table 1. The budget in Table 1 includes limited fees assessed to support the breath test program. Additionally, the Department was awarded grants from the Indiana Criminal Justice Institute of \$15,000.00 for overtime and \$63,338.00 for a gas chromatograph for alcohol analysis.

Table1: State appropriations for the Department of Toxicology

2010	2011	2012	2013	2014
\$2,463,380.00	\$2,463,380.00	\$2,093,873.00	\$2,093,873.00	\$2,000,873.00

Staffing

The Department ended the year with 16 of its 22 positions filled as detailed in Table 2. The Department contracts with the Indiana Office of Technology, the State Budget Agency, and the State Personnel Department for computer support, accounting services, and human resource matters respectively. The last two pages of this report provides the Department's organizational structure and contact information.

Table 2: Department of Toxicology Staffing

Position	Status as of 12/31/12	Position	Status as of 12/31/12
Director	1	Analytical Lab Supervisor	1
Assistant Director	1	Forensic Scientist	9 (2 vacant)
Chief Toxicologist	1 (vacant)	Evidence Control	2 (1 vacant)
General Counsel	1	Breath Test Supervisor	1 (vacant)
Administrative Assistant	1	Breath Test Inspector	4 (1 long term disability)

Training

The field of forensics, including toxicology, is constantly evolving. For this reason, the Department is committed to career-long learning for its employees.

Outside training completed during 2013 included an Agilent Seminar held on site and attended by multiple agencies from several states. Also, staff attended The Robert F. Borkenstein Course On Alcohol And Highway Safety: Testing, Research and Litigation and The Robert F. Borkenstein Course on DUID: The Effects of Drugs on Human Performance and Behavior; Expert Witness: Effective Courtroom Testimony; Leadership Academy Training; Midwest Crime Laboratory Director's Meeting; Information and Record Management Training; Intox EC/IR II Training; and Legal and Ethics Conference. Knowledge gained through outside training is shared within the agency with those not attending. The Department has also taken advantage of free web-based training in basic toxicology methods sponsored by the National Institute of Justice, ASCLD Seminar Series on Managing Backlogs, and SOP Writing for ISO 17025 Accreditation.

Customer

ISDT analyzed blood samples for 327 agencies including town marshals, municipal and county departments, and state law enforcement agencies in 2013 an increase of over 9% from the previous year. Additionally, work was performed for some county coroners and county prosecutors. Most agencies use kits (Figure 1) provided by the Department to collect their samples for analysis. Expired kits may be returned to ISDT for refurbishment. Each refurbished kit can be redistributed to agencies at a savings of approximately \$3.25 per kit to ISDT. The breath test program certified over 470 new operators, recertified over 1,900 officers, and maintained breath test instruments in over 200 law enforcement locations throughout the state.

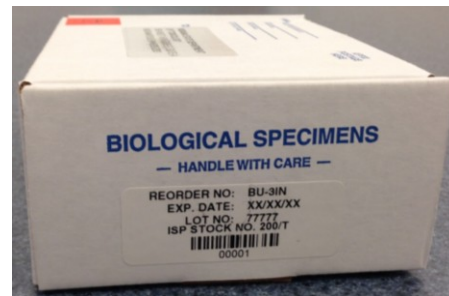


Figure 1: ISDT evidence kit

Analysis

Table 4 shows that 9,637 cases were completed in 2013 an increase of 28% from the 7,541 cases completed in 2012. This increase is attributable to adding staff and an overtime grant from the Criminal Justice Institute. The additional staff led to an increase in productivity of 20% in the second half of the year after they completed training and commenced casework. The grant (\$15,000.00) was used from April through August and affected about 200 cases.

As shown in Table 5, the Department received 6,690 cases in 2013. This is over 550 cases on average submitted every month up from under 500 cases submitted per month in 2012. This increase in case submissions offset productivity gains leading to an increase in the backlog displayed in Table 3.

In 2013, all ethanol cases were worked in-house and starting in July all THC cases were worked in-house as well. Ethanol case completions were up 27% and THC case completions were up 43% compare to the previous year. Working cases in-house saves money, improves response time, and provides better access to witnesses for the courts.

Offenses reported with submission information indicated that 58% of the cases handled by ISDT involved Operating While Intoxicated, 22% involved Personal Injury Accident, 13% Property Damage Accident, 4% Fatal Accident and Other submissions accounted for the remaining 3%.

Table 3: Analytical Case Summary 2013

Backlog	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Alcohol Analysis	1198	1292	1423	1492	1719	1840	1851	1863	1984	2110	1653	1480
Drug Analysis	1962	1898	2024	2122	2067	2158	2444	2663	2663	2845	2473	2412
Total	3160	3190	3447	3614	3786	3998	4295	4526	4647	4955	4126	3892
Over 15 Days	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Alcohol Analysis	1007	1100	1233	1368	1534	1541	1596	1636	1818	1893	1449	1390
Drug Analysis	1751	1682	1797	1989	1842	1857	2175	2371	2464	2594	2274	2318
Total	2758	2782	3030	3357	3376	3398	3771	4007	4282	4487	3723	3708
Over 30 Days	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Alcohol Analysis	796	911	1058	1161	1330	1275	1409	1439	1587	1665	1429	1063
Drug Analysis	1494	1458	1607	1775	1617	1536	1961	2167	2238	2371	2251	1989
Total	2290	2369	2665	2936	2947	2811	3370	3606	3825	4036	3680	3052

Table 4: Completed analysis by request type

Completed Requests	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Alcohol Analysis	217	244	246	265	194	458	440	447	293	374	686	620	4,484
Drug Analysis	572	484	327	257	558	543	201	305	456	347	598	505	5,153
Total	789	728	573	522	752	1001	641	752	749	721	1284	1125	9,637

Table 5: New cases submitted for analysis and the breakdown of these cases by requests

New Cases Submitted	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	537	511	550	579	541	612	638	666	610	549	466	431	6,690
New Requests	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Alcohol Analysis	404	337	376	336	420	579	451	459	416	498	229	447	4,952
Drug Analysis	472	420	451	356	491	633	487	525	457	530	226	445	5,493
Total Requests	876	757	827	692	911	121	938	984	873	102	455	892	10,445

The Indiana Department of Toxicology has 209 DataMaster breath test instruments strategically located throughout Indiana as noted in Figure 2. Using these instruments, local officers conducted approximately 26,000 breath tests. There are 4,953 state, county, and local officers who are certified breath test operators in Indiana. Of these, 1,961 were recertified on the operation of the BAC DataMaster in 2013. Indiana Administrative Code 260 requires that a certified breath test operator be recertified every two years. Ten certification classes were held in 2013 to train new operators. These classes certified 473 new officers. The average wait time to attend a certification class was 60 days.

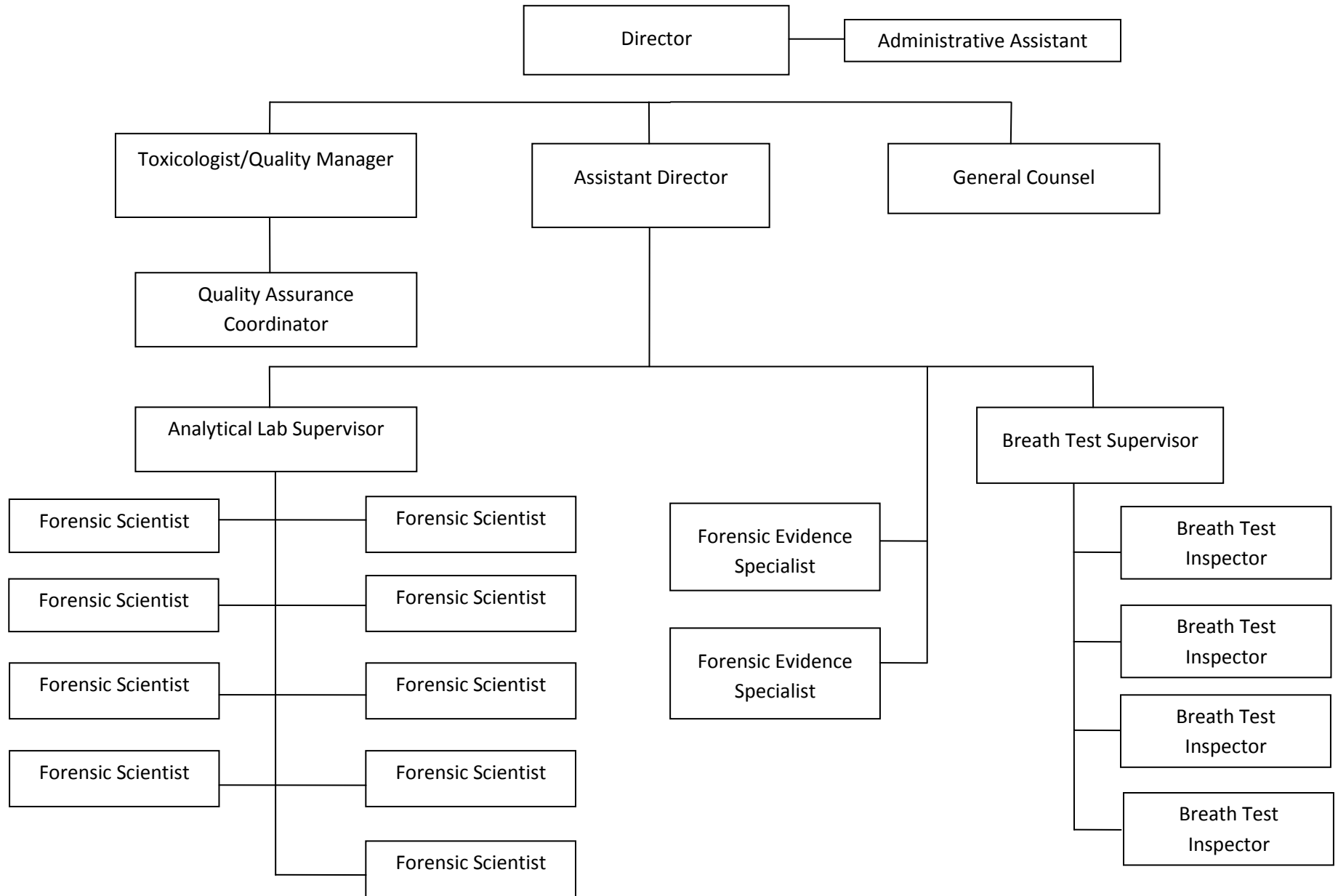
Map of Indiana showing the number of deaths from COVID-19 by county. The numbers are as follows:

- 18: LAKE
- 4: PORTER, LA PORTE, ST. JOSEPH, MARSHALL, KOSCIUSKO, WARRICK, SPENCER
- 3: STARKE, PULASKI, FULTON, MARION, HARRISON, CLARK, FLOYD
- 2: NEWTON, JASPER, WHITE, CASS, MIAMI, MONROE, BROWN, LAWRENCE, JACKSON, SCOTT, CLARK, FLOYD
- 1: STEUBEN, DE KALB, ALLEN, HUNTINGTON, WELLS, ADAMS, GRANT, BLACK FORD, JAY, MADISON, DELAWARE, HENRY, WAYNE, FAYETTE, UNION, FRANKLIN, DECATUR, RIPLEY, JEFFERSON, SWITZERLAND, GIBSON, PIKE, DUBOIS, CRAWFORD, PERRY, HARRISON, FLOYD, VERMILION, PARKE, MONTGOMERY, BOONE, HAMILTON, MADISON, DELAWARE, HENRY, WAYNE, FAYETTE, UNION, FRANKLIN, DECATUR, RIPLEY, JEFFERSON, SWITZERLAND, GIBSON, PIKE, DUBOIS, CRAWFORD, PERRY, HARRISON, FLOYD

A photograph showing four pieces of laboratory equipment, specifically Model 34 C Heaters, which are Lab Equipment Wet Simulators. These devices are used for testing breathing apparatus. Each unit consists of a stainless steel upper housing with control knobs and switches, and a clear cylindrical lower chamber containing a yellow vertical tube. The units are arranged in a row, and various hoses and connectors are visible at the base. The central unit has a UL Listed 6828 label and a 'TO BREATH TESTER' label.

6

INDIANA STATE DEPARTMENT OF TOXICOLOGY



Contact Information:

Indiana State Department of Toxicology

550 W. 16th Street, Suite A
Indianapolis, IN 46202-2203

Web: www.IN.gov/isdt

General phone: (317) 921-5000

Fax: (317) 278-2836

Director

Ed Littlejohn
(317) 921-5006
elittlejohn@isdt.IN.gov

Assistant Director

Steve Mayer
(317) 921-5004
smayer@isdt.IN.gov

Toxicologist

Dr. Sheila A. Arnold
(317) 921-5003
sarnold1@isdt.IN.gov

General Counsel

Teri Kendrick
(317) 921-5002
tkendrick@isdt.IN.gov

Program Coordinator
Breath Test/IResults

Haley Brown
(317) 921-5007
halbrown@isdt.IN.gov